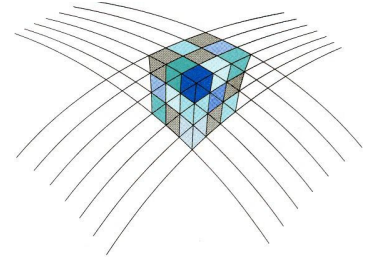


NCG



Netherlands Center for Geodesy and Geo-informatics

## Abstract submission for the NCG Symposium 2020

Abstract submission deadline: **24 August 2020**

Please submit your abstract EasyChair

<https://easychair.org/conferences/?conf=ncg2020>

Name: Jin Huang

Affiliation: Delft University of Technology

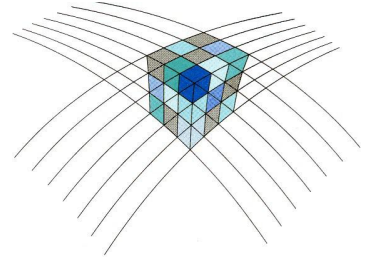
E-mail: J.Huang-1@tudelft.nl

Presentation title: City-scale LoD2 building reconstruction from airborne LiDAR data

Demo: no

Abstract:

With the rapid development of photogrammetry and sensing technologies, 3D building models are used in a variety of applications. The automated reconstruction for urban buildings from airborne LiDAR data has attracted increasing attention. To this end, I introduce a novel pipeline that reconstructs LoD2 building models from airborne LiDAR scans. It is based on a hypothesizing and selection strategy. I first generate a set of candidate faces by intersecting the extracted planar primitives and inferred vertical planes. Then an optimal subset of the candidate faces is selected via optimization. The method demonstrates its robustness by generating accurate and lightweight 3D models over large urban areas.



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